

Chapter 59

Report on Global Environment

Competitiveness of Ghana

Ghana is located in West Africa. It Borders Côte d'Ivoire (Ivory Coast) to the west, Burkina Faso to the north, Togo to the east, and the Gulf of Guinea to the south. It covers 227.5 thousand of square kilometers and has a population of 24.97 million. Its GDP reaches \$39.20 billion in 2011. Through the index system and evaluation model, the environment competitiveness index of Ghana ranks at 74 in 133 countries.

Score:
49.22
Rank:
74

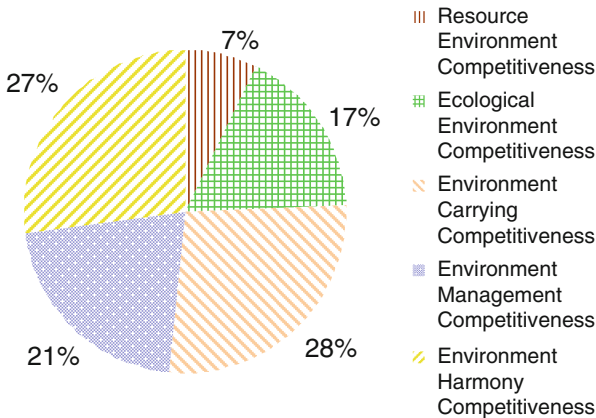


Fig. 59.1 Contribution of sub-index to GEC

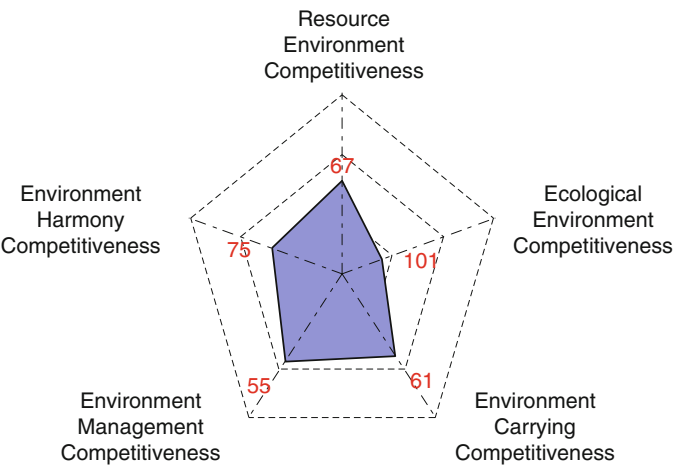


Fig. 59.2 Rank of sub-index of GEC

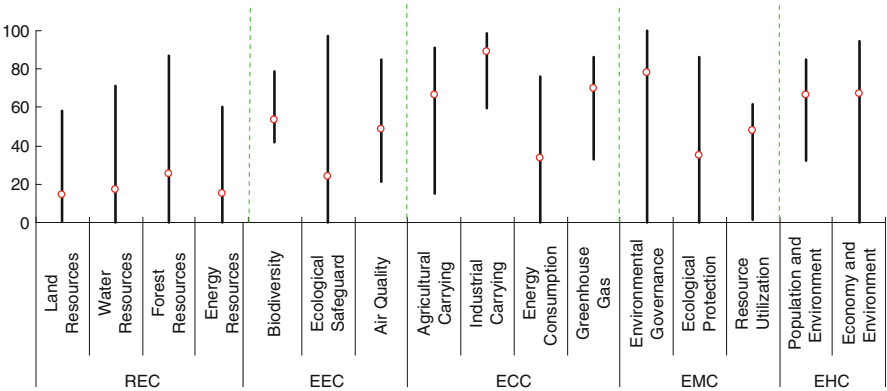


Fig. 59.3 Score and rank of the pillars of GEC

Table 59.1 Score and rank of all indicators of GEC

Indicators	Score	Rank	Indicators	Score	Rank
1 Resource Environment Competitiveness	17.57	67	Annual precipitation	42.19	43
1.1 Land Resources	14.06	58	Groundwater	16.61	47
Land area per capita	1.62	90	Total internal renewable water resources	6.72	88
Percentage of arable land to total land area	35.70	37	1.3 Forest Resources	25.60	82
Arable land per capita	9.00	69	Growing stock in forest and other wooded land	50.88	75
1.2 Water Resources	16.99	60	Proportion of land area covered by forest	24.83	77
Surface water	2.46	84			

(continued)

Table 59.1 (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Forest area per capita	1.35	76	Annual freshwater withdrawals for industry	98.49	51
1.4 Energy Resources	15.13	30	per value added of industry		
Fossil energy	0.00	64	3.3 Energy Consumption	33.77	63
Energy production	0.28	105	Energy consumption per unit of land area	99.92	39
Proportion of combustible renewable and waste to total energy consumption	68.36	16	Ratio of clean energy consumption	10.92	53
Net energy imports of the energy consumption	9.11	66	Elasticity of energy consumption	13.84	70
2 Ecological Environment Competitiveness	42.51	101	Elasticity of electric power consumption	10.39	80
2.1 Biodiversity	53.50	116	3.4 Greenhouse Gas	70.02	19
Threatened fish species	79.25	97	Growth rate of CO ₂ emissions	51.06	72
Threatened mammal species	91.30	90	Growth rate of Methane emissions	72.76	8
Threatened plant species	93.17	109	CO ₂ emissions per unit of land area	99.95	38
GEF benefits index for biodiversity	1.90	70	CO ₂ emissions per unit of energy consumption	75.28	20
2.2 Ecological Safeguard	23.80	61	4 Environment Management Competitiveness	51.92	55
Terrestrial protected areas	39.67	48	4.1 Environmental Governance	77.97	89
Marine protected areas	N/A	N/A	Agricultural chemicals regulation	66.67	65
2.3 Air Quality	48.31	103	Percentage of the rural population with access to an improved water source	80.00	77
Inhalable particles (PM10)	83.94	47	Percentage of the urban population with access to an improved water source	91.00	106
Particulate matter(PM2.5)	71.88	104	4.2 Ecological Protection	35.16	63
Index of Indoor air pollution	2.70	114	Area of plantation and afforestation	0.34	63
Nitrogen oxides emission	67.97	62	Biome protect	78.10	47
Sulfur dioxide emission	40.91	27	Overfishing of fishing resources	38.64	76
3 Environment Carrying Competitiveness	67.25	61	4.3 Resource Utilization	48.24	17
3.1 Agricultural Carrying	66.16	70	Utilization rate of water resources	0.07	96
Cereal yield per unit of arable land	16.27	93	Percentage of total internal renewable water resources to total water resources	38.75	100
Fertilizer consumption per unit of arable land	99.04	28			
Annual freshwater withdrawals for agriculture per unit of arable land	99.80	33			
3.2 Industrial Carrying	88.82	90			
Net exports of goods as a percentage of GDP	70.26	100			
Electric power consumption per unit of value added of industry	86.75	97			
SO ₂ emissions per unit of value added of industry	99.80	69			

(continued)

Table 59.1 (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Percentage of agricultural land to total land area	80.52	17	Renewable internal freshwater resources per capita	1.47	93
Percentage of fossil fuel energy consumption to total energy consumption	73.61	16	SO ₂ emissions per capita	99.50	14
			CO ₂ emissions per capita	99.06	21
			Energy consumption per capita	98.10	13
5 Environment Harmony Competitiveness	66.85	75	5.2 Economy and Environment	67.14	52
5.1 Population and Environment	66.55	90	Land resource utilization efficiency	0.05	90
Percentage of population with access to Improved sanitation facilities	13.00	124	Sulfur dioxide emissions per unit of GDP	97.15	35
Motor vehicles per 1,000 people	96.17	30	Carbon dioxide emissions per unit of GDP	90.81	47
			Energy consumption per unit of GDP	80.53	77

Table 59.2 Rank distribution of the individual indicators of GEC

Sub-index	Number of the individual indicators	Rank 1–10	Rank 11–30	Rank 31–60	Rank 61–100	Rank 101–133
Resource Environment Competitiveness	14	0	2	5	6	1
Ecological Environment Competitiveness	11	0	0	2	4	5
Environment Carrying Competitiveness	15	1	2	3	9	0
Environment Management Competitiveness	10	0	2	1	7	0
Environment Harmony Competitiveness	10	0	3	3	3	1
Total	60	1	9	14	29	7

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